



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Ted Stewart
Executive Director

James W. Carter
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340
801-359-3940 (Fax)
801-538-5319 (TDD)

027/007

October 27, 1995

Allan R. Cerny, Secretary
Western States Minerals Corporation
4975 Van Gordon Street
Wheat Ridge, Colorado 80033

Re: Second Request for Reduction in Reclamation Surety Bond, Western States Minerals Corporation, Drum Mine, M/027/007, Millard County, Utah

Dear Mr. Cerny:

I am responding to your September 12, 1995 letter requesting an immediate reduction in Western States Minerals Corporation's (WSMC) surety for the Drum Mine from \$264,080 to \$124,700. At this time I cannot approve this request.

The basis for my denial is twofold:

First, your request is predicated on Division reclamation cost estimates that are not part of an approved Division agency action. Your letter references the Division's *preliminary* reclamation cost estimate that was based upon a standard escalation of WSMC's original (1983) reclamation surety estimate. This *preliminary* cost estimate also includes Jumbo Mining Company's (JMC) approved mine plan modifications to WSMC's original permit and more recently proposed permit revisions that have not yet been approved.

The interim cost estimate does not reflect the actual as-built conditions as they presently exist at the Drum Mine. It is only a preliminary ball-park estimate of projected reclamation costs, assuming that the mining operation was constructed according to WSMC's originally approved design plans. We have reason to believe that some of the mine facilities may not have been constructed in accordance with the original approved plan. In order to confirm that the interim cost estimate is indeed accurate, an in-depth comparison of the actual as-built conditions against the original approved design plans would need to be performed. Until this assessment can be conducted (or until JMC posts the adequate reclamation surety and permit transfer occurs), we are not prepared to release or reduce WSMC's \$264,080 surety.

Second, the Bureau of Land Management (BLM) will not consent to a reduction in WSMC's reclamation surety until an updated operating and reclamation plan, contemplating reclamation of all regulated disturbances at the Drum Mine, has been approved by the BLM and appropriate state agencies and adequate replacement surety has been posted by JMC.

FACSIMILE TRANSMISSION COVER SHEETDOGM
MINERALS PROGRAM
FILE COPY

DATE: 10-25-95

TO: D. Wayne Hedberg

COMPANY: DOGM

LOCATION: SLC

FAX NUMBER: (801) 359-3940

FROM: Rody Cox

COMPANY: BLM

LOCATION: Fillmore

FAX NUMBER: (801) 743-5112 TELEPHONE NUMBER: FTS 322-6800
(801) 743-6811

TOTAL NUMBER OF PAGES 15 (INCLUDING COVER SHEET)

MESSAGE: RE: Jumbo Mining Co.'s
Drum Mine

JUMBO MINING COMPANY

*6305 Fern Spring Cove
Austin, Texas 78730
512-346-4537 (Ph.)
512-346-3188 (Fax)*

DEPT. OF THE INTERIOR

OCT 13 1995

Bureau of Land Management
House Range/Warm Springs R.A.

October 10, 1995

File: DOG10095.doc

D. Wayne Hedberg, Permit Supervisor
State of Utah, Dept. of Natural Resources
Utah Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center - Suite 350
Salt Lake City, Utah 84180-1203

Phone: 801-538-5340
Fax: 801-359-3940

RE: Response to DOGM letter dated July 11, 1995

Dear Mr. Hedberg:

The Division's letter dated July 11, 1995 required Jumbo to submit a draft interim maintenance plan that outlines measures to control and contain any runoff from the heaps during and after a rainstorm. DOGM is assuming that WAD cyanide (in concentrations above drinking water standards) is still being released in runoff during a rainstorm. We will show that cyanide has been rinsed or neutralized to acceptable levels and the possibility of ground water contamination from cyanide or other contaminants is highly unlikely, without further residual measures.

During our sampling of the perched aquifer which concluded on June 27th, we also collected samples (under the same approved procedures and protocol) from the pregnant and barren ponds as well as a sample from runoff of heaps 4 & 5 (only heaps draining at the time). The pregnant pond contained approximately 1.7 million gallons of water at the time of sampling which represents heap runoff during the previous spring storms. The barren pond contained approximately 0.5 million gallons of old process water which has been diluted during the last 5 years from direct rainfall. Water runoff (less than 1 gpm) from heaps 4 & 5 was from a major rainstorm one week earlier and would represent the final draindown of a heap after a storm. Samples were analyzed by American West Analytical for WAD and total cyanide, metals, chloride, nitrate and TDS (results included).

We can conclude from our sampling and previous studies that there is no reasonable possibility of ground water or surface contamination because of the following reasons:

Letter To Mr. Hedberg
October 10, 1995

File: DOG10095.doc

1. There is no known ground water, as defined in Utah law, within miles of the mine area. The depth of ground water is unknown as drill holes greater than 1,000 feet have been drilled in the area with no penetration into ground water.
2. The WAD and total cyanide concentrations in the preg pond are below drinking water standards (DWS) of 0.20 ppm. This water represents heap runoff and would be equivalent to water which may be released through any holes in the ditch liners. Cyanide, which was the only hazardous chemical used during mining operations, is biodegradable and occurs naturally in nature. Since heap runoff is below DWS for WAD cyanide, we can conclude that the heaps have been rinsed to our permit requirements.
3. WAD cyanide was even below DWS from the final draindown of a major storm in runoff from heaps 4 & 5. This final draindown solution would be from water percolating through higher impermeable zones (areas of least amount of rinsing or flushing) and would contain the highest levels of contaminants. This rinsate represents only a small fraction of rainwater that would percolate through the heaps during a major storm. Even though the total cyanide was above DWS (due to tightly bound gold-cyanide complexes), the average concentration of total cyanide from runoff should be diluted to concentrations below DWS similar to the preg pond solution.
4. WAD and total cyanide concentrations were below DWS in the barren pond.
5. All metal (As, Cd, Cr, Pb and Hg) concentrations were not detectable or below DWS for both ponds and heap 4/5 runoff.
6. Chloride concentrations were above DWS of 250 ppm but previous samples collected from the Busby Spring (approximately 1/2 mile east and 50-100' higher in elevation) and our water well (approximately 7 miles south) also contained chloride concentrations above DWS (915 ppm for the spring and 845 ppm for well water). Regional ground water flows to the northwest towards Fish Springs. All ground water data collected from wells northwest of the mine to Fish Springs contained chloride concentrations from 1,000 to > 10,000 ppm (data from Plate 1, USGS Technical Publication No. 64).
7. Nitrate concentrations (22 ppm for the preg pond) were above the 10 ppm DWS but previous sampling of the Busby Spring showed that nitrate was also above DWS at 49 ppm. All nitrate concentrations are below 100 ppm which is the U.S. EPA (1972) limit for livestock watering. Nitrate should also be beneficial in our revegetation program.
8. The amount of rain water required to carry any contaminants to a known ground water supply through several miles horizontally and thousands of feet vertically of soil and rock would be such a large quantity that any contaminants would be greatly diluted to well below DWS. The eventual discharge would be into ground water already above DWS for several constituents.

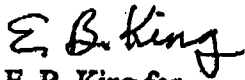
Letter To Mr. Hedberg
October 10, 1995

File: DOG10095.doc

Since it is unlikely that groundwater will be contaminated from any solution that may be released from the heaps, Jumbo should not have to repair or maintain the collection ditches. The heaps are considered to be rinsed (especially for WAD cyanide) to industry standards and should be allowed to drain freely which will be the case when reclamation occurs and the heaps are recontoured off the pad liners with the return ditch and pond liners being severed and buried.

If there are any questions or if you require further information from Jumbo, please give me a call. As always, either Dave Hartshorn or I will be pleased to discuss these topics with you.

Sincerely,



E. B. King for
Dave Hartshorn, Project Manager

cc: BLM Fillmore (Rody Cox)

**COMPARISON OF ANALYTICAL DATA FROM MONITORING HOLES
IN THE PERCHED AQUIFER AT THE DRUM MINE**

	MH 7 (1991)	MH 7 (1995)	MH 8 (1991)	MH 8 (1995)
As	0.093	0.006	0.015	<0.005
Cd	<0.005	0.008	<0.005	0.004
Cr	0.240	0.020	<0.005	0.020
Pb	0.310	<0.050	<0.100	<0.050
Hg	<0.0002	<0.001	<0.002	<0.001
Chloride	4,600	3,800	3,720	2,600
Total CN	0.170	0.081	0.210	0.170
WAD CN	NA	0.015	NA	0.026
Nitrate	NA	7.000	NA	13.0
TDS	10,622	8,700	9,730	6,700

	MH 17 (1991)	MH 17 (1995)	MH 33 (1991)	MH 33 (1995)
As	0.012	<0.005	0.037	<0.005
Cd	<0.005	<0.004	<0.005	<0.004
Cr	0.020	0.010	0.090	0.010
Pb	0.028	<0.050	<0.100	<0.050
Hg	0.0006	<0.001	<0.0002	<0.001
Chloride	3,080	1,700	2,500	1,400
Total CN	0.210	0.160	0.440	0.150
WAD CN	NA	0.019	NA	0.011
Nitrate	NA	19.0	NA	38.0
TDS	8,196	6,300	7,890	6,500

	MH 34 (1991)	MH 34 (1995)
As	0.012	<0.005
Cd	<0.005	<0.004
Cr	0.030	0.020
Pb	<0.100	<0.050
Hg	0.0008	<0.001
Chloride	2,780	1,700
Total CN	0.440	0.220
WAD CN	NA	0.029
Nitrate	NA	31.0
TDS	8,296	6,700

DRINKING WATER STANDARD
0.050
0.010
0.050
0.050
0.002
250
0.200
0.200
10.0
2,000

Concentrations are in mg/l

From : JUMBO/DRUM 8018644365

Aug. 05. 1995 08:16 PM PG1

AMERICAN
WEST
ANALYTICAL
LABORATORIESClient: Jumbo Mining
Date Sampled: June 27, 1995
Lab Sample ID.: 22963-01
Field Sample ID.: Drum Mine/MH-7Contact: Ed King
Date Received: June 28, 1995
Received By: Elona Hayward
Set Description: Five Water SamplesINORGANIC ANALYSIS REPORTAnalytical Results

	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
TOTAL METALS			
Arsenic	7060	0.005	0.006
Cadmium	6010	0.004	0.008
Chromium	6010	0.01	0.02
Lead	6010	0.05	<0.05
Mercury	7471	0.001	<0.001

463 West 3600 South
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84115(801) 263-8686
Fax (801) 263-8687OTHER CHEMISTRIES

Chloride	4500 CLB	0.5	3,800.
Cyanide (Total)	335.3	0.005	0.081
Cyanide (WAD)	335.3	0.005	0.015
Nitrate (as N)	353.2	0.01	7.0
TDS	160.1	1.0	8,700.

Released by:

Laboratory Supervisor

From : JUMBO/DRUM 8018644365

Aug. 05. 1995 08:16 PM

P02

AMERICAN
WEST
ANALYTICAL
LABORATORIES**INORGANIC ANALYSIS REPORT**Client: Jumbo Mining
Date Sampled: June 27, 1995
Lab Sample ID.: 22963-02
Field Sample ID.: Drum Mine/MH-8Contact: Ed King
Date Received: June 28, 1995
Received By: Elona Hayward
Set Description: Five Water Samples**Analytical Results**

	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
TOTAL METALS			
Arsenic	7060	0.005	<0.005
Cadmium	6010	0.004	0.004
Chromium	6010	0.01	0.02
Lead	6010	0.05	<0.05
Mercury	7471	0.001	<0.001

OTHER CHEMISTRIES

Chloride	4500 CLB	0.5	2,600.
Cyanide (Total)	335.3	0.005	0.17
Cyanide (WAD)	335.3	0.005	0.026
Nitrate (as N)	353.2	0.01	13.
TDS	160.1	1.0	6,700.

Released by:

Laboratory Supervisor

From : JUMBO/DRUM 8018644365

Aug. 05. 1995 08:16 PM

P03

AMERICAN
WEST
ANALYTICAL
LABORATORIES**INORGANIC ANALYSIS REPORT**Client: Jumbo Mining
Date Sampled: June 27, 1995
Lab Sample ID.: 22963-03
Field Sample ID.: Drum Mine/MH-17Contact: Ed King
Date Received: June 28, 1995
Received By: Elona Hayward
Set Description: Five Water Samples**Analytical Results**

	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
TOTAL METALS			
Arsenic	7060	0.005	<0.005
Cadmium	6010	0.004	<0.004
Chromium	6010	0.01	0.01
Lead	6010	0.05	<0.05
Mercury	7471	0.001	<0.001

463 West 3600 South
Salt Lake City, Utah
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Fax (801) 263-8687**OTHER CHEMISTRIES**

Chloride	4500 CLB	0.5	1,700.
Cyanide (Total)	335.3	0.005	0.16
Cyanide (WAD)	335.3	0.005	0.019
Nitrate (as N)	353.2	0.01	19.
TDS	160.1	1.0	6,300.

Released by:

Laboratory Supervisor

From : JUMBO/DRUM 8018544365

Aug. 05. 1995 08:16 PM

P04



AMERICAN
WEST
ANALYTICAL
LABORATORIES

INORGANIC ANALYSIS REPORT

Client: Jumbo Mining
Date Sampled: June 27, 1995
Lab Sample ID.: 22963-04
Field Sample ID.: Drum Mine/MH-33

Contact: Ed King
Date Received: June 28, 1995
Received By: Elona Hayward
Set Description: Five Water Samples

Analytical Results

	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
TOTAL METALS			
Arsenic	7060	0.005	<0.005
Cadmium	6010	0.004	<0.004
Chromium	6010	0.01	0.01
Lead	6010	0.05	<0.05
Mercury	7471	0.001	<0.001

OTHER CHEMISTRIES

Chloride	4500 CLB	0.5	1,400.
Cyanide (Total)	335.3	0.005	0.15
Cyanide (WAD)	335.3	0.005	0.011
Nitrate (as N)	353.2	0.01	38.
TDS	160.1	1.0	6,500.

Released by:

Laboratory Supervisor

From : JUMBO/DRUM 001600-4365

Aug 5, 1995 08:16 PM

P05



AMERICAN
WEST
ANALYTICAL
LABORATORIES

INORGANIC ANALYSIS REPORT

Client: Jumbo Mining
Date Sampled: June 27, 1995
Lab Sample ID.: 22963-05
Field Sample ID.: Drum Mine/MH-34

Contact: Ed King
Date Received: June 28, 1995
Received By: Elona Hayward
Set Description: Five Water Samples

Analytical Results

TOTAL METALS	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
Arsenic	7060	0.005	<0.005
Cadmium	6010	0.004	<0.004
Chromium	6010	0.01	0.02
Lead	6010	0.05	<0.05
Mercury	7471	0.001	<0.001

OTHER CHEMISTRIES

Chloride	4500 CLB	0.5	1,700.
Cyanide (Total)	335.3	0.005	0.22
Cyanide (WAD)	335.3	0.005	0.029
Nitrate (as N)	353.2	0.01	31.
TDS	160.1	1.0	6,700.

Released by:

Laboratory Supervisor

CHAIN OF CUSTODY

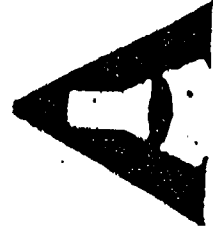
AMERICAN WEST
ANALYTICAL
LABORATORIES
463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686

FAX (801) 263-8687

LAB #

22903



CLIENT Jumbo Mining
ADDRESS 6305 Fern Springs Cove
Austin, TX 78730
PHONE (801) 512-346-3188
CONTACT Ed King

SITE DRUM MINE

SUPPLIER'S SIGNATURE Dave Haggard

SAMPLE ID

SAMPLE DATE/TIME

MATRIX

MH-7

6-27-95
2:00P

WATER

MH-8

6-27-95
1:30P

"

MH-17

6-27-95
1:00P

"

MH-33

6-27-95
12:00P

"

MH-34

6-27-95
12:30P

"

TURN AROUND TIME

TURN AROUND TIMES
I = Priority I
II = Priority II
III = 5 Day Rush
S = Standard

COMMENTS

OF CONTAINERS
VOLATILES
SEMIVOLATILES
DIST. METALS
ET PROFILES
WAD ANALYSIS
TDS ANALYSIS
CHLORIDE
NITRATE
ARSENIC
COPPER
LEAD
MERCURY

Quote # P.O. #

Relinquished By: Signature

Dave Haggard

Date/Time

6-28-95

Received By: Signature

Date/Time

Special Instructions SEND COPY OF RESULTS TO:Jumbo MiningP.O. Box 999Delta, UT 84624801-864-4697864-4365 FAX

PRINT NAME

Dave Haggard

Relinquished By: Signature

Date/Time

6-28-95

Received By: Signature

Date/Time

PRINT NAME

Disinquired By: Signature

Date/Time

6-28-95

Received By: Signature

Date/Time

PRINT NAME

Dave Haggard

Date/Time

6-28-95

Received By: Signature

Date/Time

PRINT NAME Elena HaggardDate/Time 6/28/95



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LABORATORIES

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84115

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INORGANIC ANALYSIS REPORT

Client: Rinehart

Date Received: February 21, 1995

Lab Sample ID Number: 21624-06

Field Sample ID: BLM-Jumbo Mine/4B1 & 4B2 Upper Berm

Contact: Kimmel King

Received By: Elona Hayward

Really rinse from
washing carbon close to
CN/CO mixing bin

Analytical Results

	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
TCLP METALS	1311		
Arsenic	7060	0.5	<0.5
Barium	6010	0.05	0.39
Cadmium	6010	0.03	<0.03
Chromium	6010	0.05	<0.05
Lead	6010	0.1	<0.1
Mercury	7471	0.05	<0.05
Selenium	7740	0.1	<0.1
Silver	6010	0.1	<0.1

OTHER CHEMISTRIES

<u>Cyanide</u>	335.3	0.005	16.
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Released by:

Paul
Laboratory Supervisor

Report Date 2/2/95

1 of 1

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3000

BY THE RECEIVING

0310 294 1095

90:11 88/90/80



AMERICAN
WEST
ANALYTICAL
LABORATORIES

INORGANIC ANALYSIS REPORT

BLM Samples

Client: Rinchem
Date Received: February 21, 1995
Lab Sample ID Number: 21624-01
Field Sample ID: BLM-Jumbo Mine/001-Pregnant Pond

Contact: Kimmel King
Received By: Elona Hayward

Analytical Results

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Salt Lake City, Utah
84115

(801) 263-8686
Fax (801) 263-8687

TCLP METALS

	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
	1311		
Arsenic	7060	0.5	<0.5
Barium	6010	0.05	<0.05
Cadmium	6010	0.03	<0.03
Chromium	6010	0.05	<0.05
Lead	6010	0.1	<0.1
Mercury	7471	0.05	<0.05
Selenium	7740	0.1	<0.1
Silver	6010	0.1	<0.1

OTHER CHEMISTRIES:

Cyanide	335.3	0.005	0.38
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Released by: Pelt
Laboratory Supervisor

Report Date 3/2/95

1 of 1

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2000

RINCHAM UTAH

0210 094 1092

00:11 06/00/00



AMERICAN
WEST
ANALYTICAL
LABORATORIES

INORGANIC ANALYSIS REPORT

BLM Samples

Client: Rinchem

Date Received: February 21, 1995

Lab Sample ID Number: 21624-03

Field Sample ID: BLM-Jumbo Mine/003-Leach Run-Off

Contact: Kimmel King

Received By: Elona Hayward

Analytical Results

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Fax (801) 263-8687

TCLP METALS

	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
	1311		
Arsenic	7060	0.5	<0.5
Barium	6010	0.05	<0.05
Cadmium	6010	0.03	<0.03
Chromium	6010	0.05	<0.05
Lead	6010	0.1	<0.1
Mercury	7471	0.05	<0.05
Selenium	7740	0.1	<0.1
Silver	6010	0.1	<0.1

OTHER CHEMISTRIES

Cyanide	395.3	0.005	0.33
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Released by: [Signature]
Laboratory Supervisor

Report Date 3/2/95

1 of 1

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1000

RINCHER 171A

0310 783 1083

03/08/95 11:07



AMERICAN
WEST
ANALYTICAL
LABORATORIES

INORGANIC ANALYSIS REPORT

BLM Samples

Client: Rinchem
Date Received: February 21, 1995
Lab Sample ID Number: 11624-02
Field Sample ID: BLM-Jumbo Mine/002-Barren Pond

Contact: Kimmel King
Received By: Elona Hayward

Analytical Results

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Fax (801) 263-8687

TCLP METALS

	Method Used:	Detection Limit: mg/L	Amount Detected: mg/L
	1311		
Arsenic	7060	0.5	<0.5
Barium	6010	0.05	<0.05
Cadmium	6010	0.03	<0.03
Chromium	6010	0.05	<0.05
Lead	6010	0.1	<0.1
Mercury	7471	0.05	<0.05
Selenium	7740	0.1	<0.1
Silver	6010	0.1	<0.1

OTHER CHEMISTRIES

Cyanide	335.3	0.005	0.084
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Released by: RAC
Laboratory Supervisor

Report Date 3/2/95

1 of 1

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